1. Write a Python program that prompts the user to input a list of numbers separated by spaces in a single line. Your program should then:

1. **Calculate the Sum** of all the numbers.
2. **Calculate the Average** of the numbers, rounded to two decimal places.
3. **Find the Maximum and Minimum** values from the list of numbers.

Finally, print the calculated values in a clear format.

Input

Enter numbers (space-separated): 10 20 30 40 50

Output

Sum: 150

Average: 30.0

Max: 50

Min: 10

2. Write a Python program that prompts the user to input a sentence containing multiple words separated by spaces. Your program should then:

1. Identify and print the longest word in the sentence.
2. Print the length of this longest word.

Input :

Enter a sentence: The Lexus LFA has best v10 sounding engine.

Output :

Longest word: sounding

Length: 8

3. **Find the Maximum Element in an Array**

You are given an array of integers. Your task is to find and print the maximum element in the array.

Input Format:

1. The first line contains total test cases.Next two line contains a single test case.
2. The first line of test case contains an integer N, the number of elements in the array.
3. The second line contains N space-separated integers, which are the elements of the array.

Output Format:

Print the maximum element in the array.

Constraints:

$$1 \leq N \leq 100$$

$$-10^3 \leq \text{Array Elements} \leq 10^3$$

Input

3
5
1 2 3 4 5
3
10 1 21
7
1 1 1 4 90 56 72

Output
5
21
90

4. **Calculate the Product of Numbers**

You are given multiple numbers, each on a new line. Your task is to calculate the product of these numbers and print the result.

Input Format:

1. The first line contains an integer N, representing the number of numbers that will follow.
2. The next N lines each contain a single integer.

Output Format:

Print the product of all the numbers.

Constraints:

$$1 \leq N \leq 10$$

$$1 \leq \text{Each Number} \leq 100$$

Input
3
2
3
4

Output:
24